

Solutions Opener

Jennifer works at a landscaping company for summer employment. She hopes to earn \$3000 this summer for a new bike. She will be cutting lawns and trimming hedges. She earns \$4.00 per lawn and \$6 per hedge. Represent the relationship with an equation. If she trims 70 hedges, how many lawns would she need to cut?

Apr 23-7:31 AM

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$$4x + 6y = 3000$$

$x = \# \text{ of lawns}$
 $y = \# \text{ of hedges}$

$y = 70$

$$4x + 6(70) = 3000$$

$$4x + 420 = 3000$$

$$4x = 3000 - 420$$

$$4x = 2580$$

$$\frac{4}{4} = \frac{2580}{4}$$

$$x = 645$$

If she cuts 70 hedges she will need to cut 645 lawns to earn \$3000.

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5.5 Rearranging the Equation of a Line

p.300-307

Ralph (tires and gears example)

$$2t + 5g = 100$$

Rearrange Line in Two variable to isolate g

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p.300-307

Ralph (tires and gears example)

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Rearrange Line in Two variable to isolate g

$$+ 2t + 5g = 100$$

$$\frac{5g}{5} = \frac{-2t + 100}{5}$$

$$g = -\frac{2}{5}t + 20$$

Slope/Y int Form

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Example p. 302

$$0.04S + 0.10R = 500$$

S= safe investment represent as x

R= risky stocks represent as y

$$0.04x + 0.10y = 500$$

Rearrange in terms of y

What form is the line in now?
Graph

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Example p. 302

$$0.04S + 0.10R = 500$$

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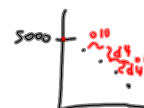
Rearrange in terms of y

$$\frac{0.10y}{0.10} = \frac{-0.04x + 500}{0.10}$$

$$y = -0.4x + 5000$$

What form is the line in now?
Graph

$$y = mx + b \text{ -- Slope/Y.int Form}$$



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p. 304-307

Assign q. 1-3, 4a,c,e, 5-9, 12 a,c,e, 15

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q1 DJ

a) $3w + c = 10$

$$c = -3w + 10$$

b) $3w + c = 10$

$$\frac{3w}{3} = \frac{-c}{3} + \frac{10}{3}$$
$$w = -\frac{1}{3}c + \frac{10}{3}$$

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